RAW SEQUENCE LISTING

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Application Serial Number:	10/561, 487 A
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RAW SEQUENCE LISTING DATE: 11/20/2006
PATENT APPLICATION: US/10/561,487A TIME: 13:51:21

Input Set : N:\efs\10561487a_ofs\66168_03SeqList.txt
Output Set: N:\CRF4\11202006\J561487A.raw

```
3 <110> APPLICANT: The Government of the United States of America as
     represented by the Secretary of the Department of Health and
        Human Services
        Drayna, Dennis
        Kim, Un-kyung
 7
9 <120> TITLE OF INVENTION: VARIANTS OF HUMAN TASTE RECEPTOR GENES
11 <130> FILE REFERENCE: 4239-66168-03
13 <140> CURRENT APPLICATION NUMBER: US 10/561,487A
14 <141> CURRENT FILING DATE: 2005-12-19
16 <1503 PRIOR APPLICATION NUMBER: US 60/480,035
17 <151> PRIOR FILING DATE: 2003-06-19
19 <150> PRIOR APPLICATION NUMBER: PCT/US2004/19489
20 <151> PRIOR FILING DATE: 2004-06-19
22 <160> NUMBER OF SEQ ID NOS: 264
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 900
28 <212> TYPE: DNA
29 <213> ORGANISM: Homo sapiens
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33 <221> NAME/KEY: CDS
34 <222> LOCATION: (1)..(900)
36 <220> FEATURE:
37 <221> NAME/KEY: variation
38 <222> LOCATION: (332)..(332)
39 <223> OTHER INFORMATION: r is g or a
41 <220> FEATURE:
42 <221> NAME/KEY: variation
43 <222> LOCATION: (616)..(616)
44 <223> OTHER INFORMATION: y is t or c
46 <400> SEQUENCE: 1
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                                                                         48
48 Met Leu Glu Ser His Leu Ile Ile Tyr Phe Leu Leu Ala Val Ile Gln
51 ttt ctt ctt ggg att ttc aca aat ggc atc att gtg gtg gtg aat ggc
                                                                         96
52 Phe Leu Leu Gly Ile Phe Thr Asn Gly Ile Ile Val Val Val Asn Gly
55 att gac ttg atc aag cac aga aaa atg gct ccg ctg gat ctc ctt ctt
56 Ile Asp Leu Ile Lys His Arg Lys Met Ala Pro Leu Asp Leu Leu
                             40
59 tot tgt otg goa gtt tot aga att ttt otg cag ttg tto atc tto tac
60 Ser Cys Leu Ala Val Ser Arg Ile Phe Leu Gln Leu Phe Ile Phe Tyr
   50
61
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Input Set : N:\efs\10561487a_efs\66168_03SeqList.txt
Output Set: N:\CRF4\11202006\J561487A.raw

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	65						70					75					80	200	
									ata :									288	
		Asn	Cys	Ala			Leu	Phe	Ile .			Leu (Glu	Leu	Trp		Ala		
	69					85	<i>:</i> .				90					95		226	
																		336	one for the
₩>		Thr	Trp			Val	Phe	Tyr			rys ,	Val 1	Ala	Ser		Xaa	His		
	73				100					105					110			224	
									atg									384	
		Pro	ьeu		тте	Trp	ьeu	гĀ2	Met .	Arg .	iie :	ser .	-		vaı	Pro	Trp		
	77			115					120					125				420	
									tat									432	
		Met		ьeu	GIY	ser			Tyr	val :	ser i			Cys	vaı	Pne	HIS		•
	81		130					135					140					400	
									gtc									480	
			гув	Tyr	Ala	-		Met	Val	PIO	_		ьeu	Arg	туѕ	Pne	160		
	85						150			~~~		155	a+ ~	~~+	a+ a				*** ***
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					_	-			tca									576	
	92	Pne	ser		180	Ата	GIU	Pne	Ser	vai 185	PIO.	Leu .	Leu	116	190	ьеu	PHE		
		aat	~++			++~	2++	++0	tct		aaa	200	a a a	200		~ ==	ato	624	
W>		_	_	_		_				-							_	024	
M>		ATG	Val	пеп	пеп	пеп	116	FIIE		nea.	GLY .	nry .	1110		naa	GIII	Mec	•	
	97			195					つれん					205					
	97 99	aga	aac	195 aca	ata	acc	aac	agc	200 agg	at.t.	aat (aac .	agg	205 aat	gca	CCC	atc	672	
	99			aca					agg					ggt				672	
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	99 100 101	Arg	210	aca Thr	Val	Ala	Gly	Ser 215	agg Arg	Val	Pro	Gly	Arg 220	ggt Gly	Ala	Pro	Ile		
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	99 100 101 103 104	Arg	Asn 210 gcg Ala	aca Thr	Val ctg	Ala	Gly	Ser 215 ctg Leu	agg Arg	Val ttc	Pro ctg	Gly atc	Arg 220 ctc	ggt Gly	Ala ttc	Pro	Ile		
	99 100 101 103 104 105	ago Ser 225	Asr 210 gcg Ala	aca Thr ttg Leu	Val ctg Leu	Ala tct Ser	ato Ile 230	Ser 215 ctg Leu	agg Arg tcc Ser	Val ttc Phe	Pro ctg Leu	Gly atc Ile 235	Arg 220 ctc Leu	ggt Gly tac Tyr	Ala tto	tco Ser	cac His		
	99 100 101 103 104 105 107	ago Ser 225	Asn 210 gcg Ala atg	aca Thr ttg Leu	Val ctg Leu aaa	Ala tct Ser	atc Ile 230	Ser 215 ctg Leu	agg Arg tcc Ser	Val ttc Phe tct	Pro ctg Leu cta	atc Ile 235 aag	Arg 220 ctc Leu ttt	ggt Gly tac Tyr	Ala tto Phe	tcc Ser	cac His 240	720	
	99 100 101 103 104 105 107	ago Ser 225 tgo	Asn 210 gcg Ala atg	aca Thr ttg Leu	Val ctg Leu aaa	Ala tct Ser	atc Ile 230 ttt Phe	Ser 215 ctg Leu	agg Arg tcc Ser	Val ttc Phe tct	Pro ctg Leu cta	atc Ile 235 aag	Arg 220 ctc Leu ttt	ggt Gly tac Tyr	Ala tto Phe	tcc Ser	cac His 240 agg	720	
	99 100 101 103 104 105 107 108	ago Ser 225 tgo Cys	Asn 210 gcg Ala atg	aca Thr ttg Leu ata	val ctg Leu aaa Lys	Ala tct Ser gtt Val 245	atc Ile 230 ttt Phe	Ser 215 ctg Leu ctc	agg tcc Ser tct	ttc Phe tct Ser	ctg Leu cta Leu 250	atc Ile 235 aag Lys	Arg 220 ctc Leu ttt Phe	ggt Gly tac Tyr	tto Phe	tcc Ser aga Arg	cac His 240 agg	720	
	99 100 101 103 104 105 107 108 109 111	ago Ser 225 tgo Cys	Asr 210 2 gcg Ala 3 atg atg Met	aca Thr ttg Leu ata Ile	Val ctg Leu aaa Lys	Ala tct Ser gtt Val 245	atc Ile 230 ttt Phe	Ser 215 ctg Leu ctc Leu	agg tcc Ser tct Ser	ttc Phe tct Ser gtg	ctg Leu cta Leu 250 att	atc Ile 235 aag Lys	Arg 220 ctc Leu ttt Phe	ggt Gly tac Tyr cac His	Alactic Phecatos Ile	tcc Ser aga Arg 255	cac His 240 agg Arg	720 768	
	99 100 101 103 104 105 107 108 109 111	ago Ser 225 tgo Cys	Asr 210 2 gcg Ala 3 atg atg Met	aca Thr ttg Leu ata Ile	Val ctg Leu aaa Lys	Ala tct Ser gtt Val 245	atc Ile 230 ttt Phe	Ser 215 ctg Leu ctc Leu	agg tcc Ser tct Ser	ttc Phe tct Ser gtg	ctg Leu cta Leu 250 att	atc Ile 235 aag Lys	Arg 220 ctc Leu ttt Phe	ggt Gly tac Tyr cac His	Alactic Phecatos Ile	tcc Ser aga Arg 255 tct	cac His 240 agg Arg	720 768	
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	99 100 101 103 104 105 107 108 109 111 112 113 115	ago Ser 225 tgo Cys tto Phe	Asn 210 210 2 gcg Ala 3 atg Met atc	aca Thr ttg Leu ata Ile tttt Phe	val ctg Leu aaa Lys ctg Leu 260 atc	Ala tct Ser gtt Val 245 ttc Phe	atc Ile 230 ttt Phe ttc	Ser 215 ctg Leu ctc Leu atc Ile	agg tcc Ser tct Ser ctt Leu	ttc Phe tct Ser gtg Val 265 aat Asn	ctg Leu cta Leu 250 att Ile	atc Ile 235 aag Lys ggt Gly	Arg 220 ctc Leu ttt Phe ata Ile	ggt Gly tac Tyr cac His	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	
	99 100 101 103 104 105 107 108 109 111 112 113 115 116	ago Ser 225 tgo Cys tto Phe	A Asm 210 210 2 gcg Ala 3 atg 4 atg E atg E atg E tot Ser	aca Thr ttg Leu ata Ile ttt Phe Leu 275	ctg Leu aaa Lys ctg Leu 260 atc	Ala tct Ser gtt Val 245 ttc Phe	atc Ile 230 ttt Phe ttc Phe	Ser 215 ctg Leu ctc Leu tta	agg tcc Ser tct Ser ctt Leu	ttc Phe tct Ser gtg Val 265 aat Asn	Pro ctg Leu cta Leu 250 att Ile cct Pro	atc Ile 235 aag Lys ggt Gly aaa Lys	Arg 220 ctc Leu ttt Phe ata Ile ttg Leu	ggt Gly cac His Tyr aaa Lys 285	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	
	99 100 101 103 104 105 107 108 109 111 112 113 115 116 117	ago Ser 225 tgo Cys tto Phe cao	A AST 210 210 2 GCS Alas C atos Met C atos E tot Ser aass	aca Thr ttg Leu ata Ile ttt Phe Leu 275	val ctg Leu aaa Lys ctg Leu 260 atc Ile	Ala tct Ser gtt Val 245 ttc Phe	atc Ile 230 ttt Phe ttc Phe	Ser 215 ctg Leu ctc Leu tta	agg tcc Ser tct Ser ctt Leu gga Gly 280	Val ttc Phe tct Ser gtg Val 265 aat Asn	Pro ctg Leu cta Leu 250 att Ile cct Pro	atc Ile 235 aag Lys ggt Gly aaa Lys	Arg 220 ctc Leu ttt Phe ata Ile ttg Leu	ggt Gly cac His Tyr aaa Lys 285	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	
	99 100 101 103 104 105 107 108 109 111 112 113 115 116 117	ago Ser 225 tgo Cys tto Phe cao His	A AST 210 210 2 GCS Alas C atos Met C atos E tot Ser aass	aca Thr ttg Leu ata Ile ttt Phe tctc Leu 275 ttc Phe	val ctg Leu aaa Lys ctg Leu 260 atc Ile	Ala tct Ser gtt Val 245 ttc Phe	atc Ile 230 ttt Phe ttc Phe	Ser 215 ctg Leu ctc Leu tta	agg tcc Ser tct Ser ctt Leu gga Gly 280 aag Lys	Val ttc Phe tct Ser gtg Val 265 aat Asn	Pro ctg Leu cta Leu 250 att Ile cct Pro	atc Ile 235 aag Lys ggt Gly aaa Lys	Arg 220 ctc Leu ttt Phe ata Ile ttg Leu	ggt Gly cac His Tyr aaa Lys 285	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	
	99 100 101 103 104 105 107 108 109 111 112 113 115 116 117 119 120	ago Ser 225 tgo Cys tto Phe cao His	A ASTRICT AND A COLOR OF THE ADDRESS A	aca Thr ttg Leu ata Ile ttt Phe tctc Leu 275 ttc Phe	ctg Leu aaa Lys ctg Leu 260 atc Ile ctc Leu	Ala tct Ser gtt Val 245 ttc Phe tta	atc Ile 230 ttt Phe ttc Phe	Ser 215 ctg ctg ctc Leu ctc Leu atc Ile tta	agg tcc Ser tct Ser ctt Leu gga Gly 280 aag Lys	Val ttc Phe tct Ser gtg Val 265 aat Asn	Pro ctg Leu cta Leu 250 att Ile cct Pro	atc Ile 235 aag Lys ggt Gly aaa Lys	Arg 220 ctc Leu ttt Phe ata Ile ttg Leu	ggt Gly cac His Tyr aaa Lys 285	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	
	99 100 101 103 104 105 107 108 109 111 112 113 115 116 117 119 120 121 124	ago Ser 225 tgo Cys tto Phe cao His aaa Lys	A Asm 210 2 gcg Ala 5 at cg 8 Met C at cg E at cg	aca Thr ttg Leu ata Ile ttt Phe Ctc Leu 275 ttc Phe	val ctg Leu aaa Lys ctg Leu 260 atc Ile ctc Leu D NO	Ala tct Ser gtt Val 245 ttc Phe tta Leu	atc Ile 230 ttt Phe ttc Phe	Ser 215 ctg ctg ctc Leu ctc Leu atc Ile tta	agg tcc Ser tct Ser ctt Leu gga Gly 280 aag Lys	Val ttc Phe tct Ser gtg Val 265 aat Asn	Pro ctg Leu cta Leu 250 att Ile cct Pro	atc Ile 235 aag Lys ggt Gly aaa Lys	Arg 220 ctc Leu ttt Phe ata Ile ttg Leu	ggt Gly cac His Tyr aaa Lys 285	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	· ·
	99 100 101 103 104 105 107 108 109 111 112 113 115 116 117 120 121 124 125 126	ago Ser 225 tgo Cys tto Phe cao His aaa Lys <21 <21 <21	A Asm 210 2 gcg 2 Ala 3 Atc 4 Atc 4 Atc 5 Atc 6 Atc 6 Atc 6 Atc 6 Atc 7 Atc 8 At	aca Thr ttg Leu ata Ile ttt Phe tcc phe EQ I JENGT	val ctg Leu aaa Lys ctg Leu 260 atc Ile ctc Leu D NO	Ala tct Ser gtt Val 245 ttc Phe tta Leu	atc Ile 230 ttt Phe ttc Phe att Ile	Ser 215 ctg ctc ctc ctc leu atc leu atc leu agt 295	agg tcc Ser tct Ser ctt Leu gga Gly 280 aag	Val ttc Phe tct Ser gtg Val 265 aat Asn	Pro ctg Leu cta Leu 250 att Ile cct Pro	atc Ile 235 aag Lys ggt Gly aaa Lys	Arg 220 ctc Leu ttt Phe ata Ile ttg Leu	ggt Gly cac His Tyr aaa Lys 285	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	
	99 100 101 103 104 105 107 108 109 111 112 113 115 116 117 120 121 124 125 126	ago Ser 225 tgo Cys tto Phe cao His aaa Lys <21 <21 <21	A Asm 210 2 gcg 2 Ala 3 Atc 4 Atc 4 Atc 5 Atc 6 Atc 6 Atc 6 Atc 6 Atc 7 Atc 8 At	aca Thr ttg Leu ata Ile ttt Phe Ctc Leu 275 Fhe GEQ I GEQ I	val ctg Leu aaa Lys ctg Leu 260 atc Ile ctc Leu D NO	Ala tct Ser gtt Val 245 ttc Phe tta Leu	atc Ile 230 ttt Phe ttc Phe att Ile	Ser 215 ctg ctc ctc ctc leu atc leu atc leu agt 295	agg tcc Ser tct Ser ctt Leu gga Gly 280 aag	Val ttc Phe tct Ser gtg Val 265 aat Asn	Pro ctg Leu cta Leu 250 att Ile cct Pro	atc Ile 235 aag Lys ggt Gly aaa Lys	Arg 220 ctc Leu ttt Phe ata Ile ttg Leu	ggt Gly cac His Tyr aaa Lys 285	Alactic Phecatos Ile	tcc Ser aga 255 tct Ser	cac His 240 agg Arg gga Gly	720 768 816	

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129 <220> FEATURE:
    130 <221> NAME/KEY: misc feature
    131 <222> LOCATION: (111)..(111)
    132 <223> OTHER INFORMATION: The 'Xaa' at location 111 stands for Arg, or His.
    134 <220> FEATURE:
    135 <221> NAME/KEY: misc_feature
    136 <222> LOCATION: (206) ... (206)
    137 <223> OTHER INFORMATION: The 'Xaa' at location 206 stands for Arg, or Trp.
    139 <400> SEOUENCE: 2
    141 Met Leu Glu Ser His Leu Ile Ile Tyr Phe Leu Leu Ala Val Ile Gln
    145 Phe Leu Leu Gly Ile Phe Thr Asn Gly Ile Ile Val Val Val Asn Gly
                   20
                                      25
    149 Ile Asp Leu Ile Lys His Arg Lys Met Ala Pro Leu Asp Leu Leu Leu
                                   40
    153 Ser Cys Leu Ala Val Ser Arg Ile Phe Leu Gln Leu Phe Ile Phe Tyr
                               55
    157 Val Asn Val Ile Val Ile Phe Phe Ile Glu Phe Ile Met Cys Ser Ala
  161 Asn Cys Ala Ile Leu Leu Phe Ile Asn Glu Leu Glu Leu Trp Leu Ala
                       85
W--> 165 Thr Trp Leu Gly Val Phe Tyr Cys Ala Lys Val Ala Ser Val Xaa His
                                      105
                  100
    169 Pro Leu Phe Ile Trp Leu Lys Met Arg Ile Ser Lys Leu Val Pro Trp
                                   120
               115
    173 Met Ile Leu Gly Ser Leu Leu Tyr Val Ser Met Ile Cys Val Phe His
    174 130
                               135
    177 Ser Lys Tyr Ala Gly Phe Met Val Pro Tyr Phe Leu Arg Lys Phe Phe
                                              155
                           150
    181 Ser Gln Asn Ala Thr Ile Gln Lys Glu Asp Thr Leu Ala Ile Gln Ile
                                          170
                       165
    185 Phe Ser Phe Val Ala Glu Phe Ser Val Pro Leu Leu Ile Phe Leu Phe
                                       185
    186
                    180
W--> 189 Ala Val Leu Leu Ile Phe Ser Leu Gly Arg His Thr Xaa Gln Met
               195
    193 Arg Asn Thr Val Ala Gly Ser Arg Val Pro Gly Arg Gly Ala Pro Ile
            210 .
                               215
                                                  220
    197 Ser Ala Leu Leu Ser Ile Leu Ser Phe Leu Ile Leu Tyr Phe Ser His
                           230
                                              235
    201 Cys Met Ile Lys Val Phe Leu Ser Ser Leu Lys Phe His Ile Arg Arg
                       245
                                           250
    205 Phe Ile Phe Leu Phe Phe Ile Leu Val Ile Gly Ile Tyr Pro Ser Gly
    206
                   260
                                      265
    209 His Ser Leu Ile Leu Ile Leu Gly Asn Pro Lys Leu Lys Gln Asn Ala
                                   280
                                                      285
    213 Lys Lys Phe Leu Leu His Ser Lys Cys Cys Gln
            290
                               295
    217 <210> SEQ ID NO: 3
    218 <211> LENGTH: 951
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219 <212> TYPE: DNA
    220 <213> ORGANISM: Homo sapiens
    223 <220> FEATURE:
    224 <221> NAME/KEY: CDS
    225 <222> LOCATION: (1)..(951)
     227 <220> FEATURE:
    228 <221> NAME/KEY: variation
    229 <222> LOCATION: (349) ... (349)
    230 <223> OTHER INFORMATION: y is t or c
    232 <220> FEATURE:
    233 <221> NAME/KEY: variation
     234 <222> LOCATION: (807)..(807)
    235 <223> OTHER INFORMATION: y is t or c
    237 <220> FEATURE:
    238 <221> NAME/KEY: variation
    239 <222> LOCATION: (852)..(852)
    240 <223> OTHER INFORMATION: y is t or c
     242 <400> SEQUENCE: 3
                                                                               -48
    243 atc after gga oto accurag ggg gtg tto otg att otg tot ggc act dag
     244 Met Met Gly Leu Thr Glu Gly Val Phe Leu Ile Leu Ser Gly Thr Gln
    245 1
                         5
                                             10
                                                                                96
    247 ttc aca ctg gga att ctg gtc aat tgt ttc att gag ttg gtc aat ggt
     248 Phe Thr Leu Gly Ile Leu Val Asn Cys Phe Ile Glu Leu Val Asn Gly
                                         25
    251 agc agc tgg ttc aag acc aag aga atg tct ttg tct gac ttc atc atc
                                                                               144
     252 Ser Ser Trp Phe Lys Thr Lys Arg Met Ser Leu Ser Asp Phe Ile Ile
                                     40
    255 acc acc ctg gca ctc ttg agg atc att ctg ctg tgt att atc ttg act
                                                                               192
    256 Thr Thr Leu Ala Leu Leu Arg Ile Ile Leu Leu Cys Ile Ile Leu Thr
             50
                                 55
     259 gat agt ttt tta ata gaa ttc tct ccc aac aca cat gat tca ggg ata
                                                                               240
    260 Asp Ser Phe Leu Ile Glu Phe Ser Pro Asn Thr His Asp Ser Gly Ile
                             70
                                                75
     263 ata atg caa att att gat gtt tcc tgg aca ttt aca aac cat ctg agc
                                                                               288
     264 Ile Met Gln Ile Ile Asp Val Ser Trp Thr Phe Thr Asn His Leu Ser
     265
                                             90
                         85
                                                                               336
     267 att tgg ctt gcc acc tgt ctt ggt gtc ctc tac tgc ctg aaa atc gcc
     268 Ile Trp Leu Ala Thr Cys Leu Gly Val Leu Tyr Cys Leu Lys Ile Ala
                    100
                                         105
     271 agt ttc tct cac ycc aca ttc ctc tgg ctc aag tgg aga gtt tct agg
                                                                               384
W--> 272 Ser Phe Ser His Xaa Thr Phe Leu Trp Leu Lys Trp Arg Val Ser Arg
                115
                                     120
                                                         125
     275 gtg atg gta tgg atg ctg ttg ggt gca ctg ctc tta tcc tgt ggt agt
                                                                               432
     276 Val Met Val Trp Met Leu Leu Gly Ala Leu Leu Leu Ser Cys Gly Ser
     279 acc gca tct ctg atc aat gag ttt aag ctc tat tct gtc ttt agg gga
                                                                               480
     280 Thr Ala Ser Leu Ile Asn Glu Phe Lys Leu Tyr Ser Val Phe Arg Gly
                            150
     283 att gag gcc acc agg aat gtg act gaa cac ttc aga aag aag agt
                                                                               528
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284 Ile Glu Ala Thr Arg Asn Val Thr Glu His Phe Arg Lys Lys Arg Ser
                                               170
       287 gag tat tat ctg atc cat gtt ctt ggg act ctg tgg tac ctg cct ccc
                                                                                 576
       288 Glu Tyr Tyr Leu Ile His Val Leu Gly Thr Leu Trp Tyr Leu Pro Pro
                                           185
                                                                                 624
       291 tta att gtg tcc ctg gcc tcc tac tct ttg ctc atc ttc tcc ctg ggg
       292 Leu Ile Val Ser Leu Ala Ser Tyr Ser Leu Leu Ile Phe Ser Leu Gly
                                   200
                   195
                                                           205
       295 agg cac aca cgg cag atg ctg caa aat ggg aca agc tcc aga gat cca
                                                                                 672
       296 Arg His Thr Arg Gln Met Leu Gln Asn Gly Thr Ser Ser Arg Asp Pro
                                   215
       299 acc act gag gcc cac aag agg gcc atc aga atc atc ctt tcc ttc ttc
                                                                                 720
       300 Thr Thr Glu Ala His Lys Arg Ala Ile Arg Ile Ile Leu Ser Phe Phe
                                                   235
                               230
       303 ttt ctc ttc tta ctt tac ttt ctt gct ttc tta att gca tca ttt ggt
                                                                                 768
       304 Phe Leu Phe Leu Leu Tyr Phe Leu Ala Phe Leu Ile Ala Ser Phe Gly
                           245
                                               250
       305
       307 aat ttc cta cca aaa acc aag atg gct aag atg att ggy gaa gta atg
                                                                                 816
... W->> 308. Asm Phs. Lam. Pro Lys Thr Lys Met Ala Lys Met Ile Kaa Glu Val Met-
                                   265
                       260
       311 aca atg ttt tat cct gct ggc cac tca ttt att cty att ctg ggg aac
                                                                                 864
  W--> 312 Thr Met Phe Tyr Pro Ala Gly His Ser Phe Ile Xaa Ile Leu Gly Asn
                                       280
       315 agt aag ctg aag cag aca ttt gta gtg atg ctc cgg tgt gag tct ggt
                                                                                 912
       316 Ser Lys Leu Lys Gln Thr Phe Val Val Met Leu Arg Cys Glu Ser Gly
               290
                                   295
       319 cat ctg aag cct gga tcc aag gga ccc att ttc tct tag
                                                                                 951
       320 His Leu Lys Pro Gly Ser Lys Gly Pro Ile Phe Ser
                               310
       324 <210> SEQ ID NO: 4
       325 <211> LENGTH: 316
       326 <212> TYPE: PRT
       327 <213> ORGANISM: Homo sapiens
       329 <220> FEATURE:
       330 <221> NAME/KEY: misc_feature
       331 <222> LOCATION: (117)..(117)
       332 <223> OTHER INFORMATION: The 'Xaa' at location 117 stands for Pro, or Ser.
       334 <220> FEATURE:
       335 <221> NAME/KEY: misc feature
       336 <222> LOCATION: (269)..(269)
       337 <223> OTHER INFORMATION: The 'Xaa' at location 269 stands for Gly.
       339 <220> FEATURE:
       340 <221> NAME/KEY: misc feature
       341 <222> LOCATION: (284)..(284)
       342 <223> OTHER INFORMATION: The 'Xaa' at location 284 stands for Leu.
       344 <400> SEQUENCE: 4
       346 Met Met Gly Leu Thr Glu Gly Val Phe Leu Ile Leu Ser Gly Thr Gln
       350 Phe Thr Leu Gly Ile Leu Val Asn Cys Phe Ile Glu Leu Val Asn Gly
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/20/2006
PATENT APPLICATION: US/10/561,487A TIME: 13:51:22

Input Set : N:\efs\10561487a efs\66168 03SeqList.txt

Output Set: N:\CRF4\11202006\J561487A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; Xaa Pos. 111,206
Seq#:2; Xaa Pos. 111,206
Seq#:3; Xaa Pos. 117,269,284
Seq#:4; Xaa Pos. 117,269,284
Seq#:5; Xaa Pos. 3,7,62,96,171
Seq#:6; Xaa Pos. 3,7,62,96,171
Seq#:7; Xaa Pos. 26,79,113,167,213,294
Seq#:8; Xaa Pos. 26,79,113,167,213,294
Seq#:9; Xaa Pos. 263
Seq#:10; Xaa Pos. 263
Seg#:11; Xaa Pos. 166,183,277,308
Seg#:12; Xaa Pos. 166,183,277,308
Seg#:13; Xaa Pos. 67,150,187,289,294
Seq#:14: Nex Pos. 67.150,187,289,294 .... Seq#:15; Xaa Pos. 40,156,174,188,209
Seq#:15; Xaa Pos. 40,156,174,188,209
Seq#:16; Xaa Pos. 40,156,174,188,209
Seq#:17; Xaa Pos. 259
Seq#:18; Xaa Pos. 259
Seq#:19; Xaa Pos. 86
Seq#:20; Xaa Pos. 86
Seg#:21; Xaa Pos. 100,101,154,172,222,282
Seq#:22; Xaa Pos. 100,101,154,172,222,282
Seq#:23; Xaa Pos. 49,80,262,274,296
Seq#:24; Xaa Pos. 49,80,262,274,296
Seq#:25; Xaa Pos. 193,197
Seq#:26; Xaa Pos. 193,197
Seq#:27; Xaa Pos. 187,273
Seq#:28; Xaa Pos. 187,273
Seq#:29; Xaa Pos. 63,127,195
Seq#:30; Xaa Pos. 63,127,195
Seq#:31; Xaa Pos. 35,90,154,170,200,212,221,294,295,297
Seq#:32; Xaa Pos. 35,90,154,170,200,212,221,294,295,297
Seq#:33; Xaa Pos. 35,162,200,217,227,240,248,276,281
Seq#:34; Xaa Pos. 35,162,200,217,227,240,248,276,281
Seq#:35; Xaa Pos. 36,228,250,288
Seq#:36; Xaa Pos. 36,228,250,288
Seq#:39; Xaa Pos. 32,109,140,152,225,240,267,295,299
Seq#:40; Xaa Pos. 32,109,140,152,225,240,267,295,299
Seq#:41; Xaa Pos. 141,143,148,172,236,252,255,270
Seq#:42; Xaa Pos. 141,143,148,172,236,252,255,270
Seq#:45; Xaa Pos. 199
Seq#:46; Xaa Pos. 199
```

DATE: 11/20/2006

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/561,487A TIME: 13:51:22

Input Set : N:\efs\10561487a_efs\66168_03SeqList.txt

```
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:336
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:624
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:192
L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:384
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:816
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:864
L:374 M:341 W: (46) "n" or "Xaa" used; for SEQ ID#:4 after pos.:112
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:256
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:272
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:48
'L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:192
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:288
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:528
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:48
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:80
 L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:160
L:693:M:341 W: (46) "n" or "Xaa," bs d, for SEQ ID#:7 after pos.:96
L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240
L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:384
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:528
L:741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:672
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:900
L:806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:64
L:830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:112
L:842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:160
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:208
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:288
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:816
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:256
 L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:528
 L:1143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:576
L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:864
 L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:930
 L:1246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:160
L:1250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:176
L:1274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:272
 L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:304
 L:1339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:240
L:1359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:480
L:1367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:576
 L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:912
 L:1451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:64
 L:1471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:144
 L:1479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:176
 L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:288
```

DATE: 11/20/2006

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/561,487A TIME: 13:51:22

Input Set : N:\efs\10561487a_efs\66168_03SeqList.txt

```
L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:144
L:1588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:480
L:1592 M:341 W: (46) "n" or "Xaa" used, for SEQ:ID#:15 after pos.:528
L:1596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:576
L:1604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:672 L:1672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:32
L:1700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:144
L:1704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos::160
L:1708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:176
L:1716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:208
L:1825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:816
L:1913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:256
L:1962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:288
L:2054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:80
L:2180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:336
L:2192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480
L:2196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:528
L:2208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:672
Li2224 M:A47 W: (46) "n" or "Xac" used, for SEQ ID#:21 after was::864
L:2293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:96
L:2305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:144
L:2309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:160
L:2321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:208
L:2337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:272
L:2394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:192
L:2398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:240
L:2446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:816
L:2450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:864
L:2454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:912
L:2510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:48
L:2514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:64
L:2562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:256
L:2566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:272
L:2570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:288
L:2652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:624
L:2757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:192
L:2863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:576
L:2887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:864
L:2964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:176
L:2988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:272
L:3043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:192
L:3059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:384
L:3079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:624
L:3145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:48
L:3161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:112
L:3181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:192
L:3283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:144
L:3295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:288
L:3311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:480
```

DATE: 11/20/2006

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/561,487A TIME: 13:51:22

Input Set : N:\efs\10561487a_efs\66168_03SeqList.txt

```
L:3315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:528
 L:3323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:624
 L:3327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:672
 L:3347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:912
 L:3420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:32
L:3432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:80
 L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:144
 L:3452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:160
 L:3460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:192
 L:3464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:208
 L:3484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:288
 L:3557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:144
 L:3589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:528
 L:3597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:624
 L:3601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:672
 L:3605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:720
 L:3609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:768
 L:3617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:864
L:3729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:192
 L:3733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:208
 L:3737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:224
 L:3741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:240
 L:3749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:272
 L:3801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:144
 L:3849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:720 L:3853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:768
 L:3861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:864
 L:3904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:32
 L:3952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:224
 L:3956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:240
L:3964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:272
 L:4212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:96
 L:4232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:336
 L:4240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:432
 L:4244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:480
 L:4264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:720
 L:4272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:816
 L:4280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:900
 L:4340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:16
 L:4360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:96
 L:4368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:128
 L:4372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:144
 L:4392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:224
 L:4400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:256
 L:4408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:288 L:4496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:432 L:4500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:480
```

VERIFICATION SUMMARY

DATE: 11/20/2006

PATENT APPLICATION: US/10/561,487A TIME: 13:51:22

Input Set : N:\efs\10561487a_efs\66168_03SeqList.txt